

ABSTRACT

An optical system with mechanical adjustment provides for the rotation and/or translation of one or more optical phase filters to variably select an extended depth of field, aberration-tolerance, and/or anti-aliasing properties of an optical imaging system. By adjusting the amount of phase induced on the wavefront, a user may select image quality selectively. The system may further automatically counter change of focus and/or aperture to maintain substantially constant image properties. Typically, two phase filters are used and moved concurrently to achieve desired image properties.